OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

October 8, 1980

Glenn Caldwell
P. O. Box 42
Garnett, Kansas 66032

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Bailey-Lohrengel Lease, Well No. 6, Anderson County, Kansas and submitted to our laboratory on August 11, 1980.

The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/ks

5 c to Garnett, Kansas

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GENERAL INFORMATION & SUMMARY

Company Glenn Caldwell Lease Bailey-Lohrengel Well No. 6

Location SW¼ NW¼ NE¼

Section 22 Twp. 21S Rge. 21E County Anderson State Kansas

Elevation, Feet	-
Name of Sand	Squirrel
Top of Core	598.0
Bottom of Core	617.7
Top of Sand	598.0
Bottom of Sand	617.7
Total Feet of Permeable Sand	19.7

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 15	5.4	5.4
15 - 30	5.9	11.3
30 - 55	5.2	16.5
55 & Above	3.2	19.7

Average Permeability Millidarcys	31.8
Average Percent Porosity	20.3
Average Percent Oil Saturation	44.5
Average Percent Water Saturation	43.7
Average Oil Content, Bbls./A. Ft.	714.
Total Oil Content, Bbls./Acre	14,061.

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LOG

Name Glenn Caldwell Lease Bailey-Lohrengel Well No. 6

Depth Interval, Feet	Description
598.0 - 598.9	Brown and gray laminated sandstone and shale.
598.9 - 600.0	Brown shaly sandstone.
600.0 - 601.2	Brown slightly calcareous sandstone.
601.2 - 602.7	Brown and gray laminated sandstone and shale.
602.7 - 607.1	Brown slightly calcareous sandstone.
607.1 - 607.5	Brown and gray laminated sandstone and shale.
607.5 - 617.7	Brown slightly calcareous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Glenn Caldwell Lease Bailey-Lohrengel Well No. 6

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	598.5	19.5	14	63	77	212	24.	0.9	0.9	191	21.60
2	599.5	19.0	33	53	86	486	4.7	1.1	2.0	535	5.17
3	600.6	21.3	40	44	84	661	37.	1.2	3.2	793	44.40
4	601.4	19.3	31	52	83	464	3.7	1.0	4.2	464	3.70
5	602.6	19.8	39	47	86	599	8.3	0.5	4.7	300	4.15
6	603.5	18.2	35	54	89	494	10.	1.4	6.1	692	14.00
7	604.4	18.5	36	61	97	517	15.	1.0	7.1	517	15.00
8	605.5	20.5	51	35	86	811	42.	1.0	8.1	811	42.00
9	606.5	20.0	51	35	86	791	89.	1.0	9.1	791	89.00
10	607.3	16.3	41	51	92	518	6.0	0.4	9.5	207	2.40
11	608.3	18.3	33	52	85	469	84.	1.2	10.7	563	100.80
12	609.5	24.7	70	28	98	1341	52.	1.0	11.7	1341	52.00
13	610.5	21.8	62	33	95	1049	26.	1.0	12.7	1049	26.00
14	611.5	20.5	46	43	89	732	31.	1.0	13.7	732	31.00
15	612.5	22.6	49	36	85	859	27.	1.0	14.7	859	27.00
16	613.5	21.5	55	34	89	917	36.	1.0	15.7	917	36.00
17	614.5	21.5	46	37	83	767	15.	1.0	16.7	767	15.00
18	615.5	21.5	61	32	93	1018	11.	1.0	17.7	1018	11.00
19	616.5	18.5	45	49	94	646	72.	1.0	18.7	646	72.00
20	617.5	21.1	53	37	90	868	15.	1.0	19.7	868	15.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Glenn Caldwell Lease Bailey-Lohrengel Well No. 6

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
598.0 - 617.7	19.7	31.8	627.22

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
598.0 - 617.7	19.7	20.3	44.5	43.7	714	14,061